

265 East 100 South Suite 350  
Salt Lake City, Utah 84111-1604  
Ph (801) 521-8564 Fax (801) 355-2938

CONSULTANT INFORMATION

KEYED NOTES

01. ABANDONED ANTENNA ON POLE - REMOVE POLE AND CONCRETE BASE - SALVAGE ANTENNA TO GUARD - FILL HOLE AN REPAIRE DAME TO LANDSCAPING  
02. FIRE HYDRANT TO REMAIN  
03. EXISTING FLAG POLE - REMOVE FLAG PILE AND EXISTING CONCRETE BASE  
04. EXISTING CURB TO REMAIN  
05. NEW RAISED PLANTER - SEE 2/AE501 FOR ELEVATION/PLAN VIEW  
06. NEW MOW STRIP - SEE 3,4,5/AE501  
07. NEW 12" CURB WALL - SEE 5/AE501  
08. NEW OWNER FURNISHED, CONTRACTOR INSTALLED FLAG POLE - SEE 9/AE501  
09. NEW 18" CURB WALL - SEE 2/AE501  
10. NEW 4'-0" WIDE SIDEWALK - SEE 7/AE501  
11. EXISTING TREE TO REMAIN  
12. REMOVE EXISTING GRASS & REGRADE LAWN AREA TO MATCH INTO NEW SIDEWALK & CURBS  
13. REPLACE EXISTING GRASS WITH NEW SOD

GENERAL NOTES

1. TAKE NECESSARY PRECAUTIONS TO PROTECT ALL EQUIPMENT STORED ON SITE FROM DAMAGING DURING CONSTRUCTION.  
2. SITE ACCESS AND STAGING AREA TO BE COORDINATED WITH NATIONAL GUARD AT TIME OF CONSTRUCTION.

Utah National Guard  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

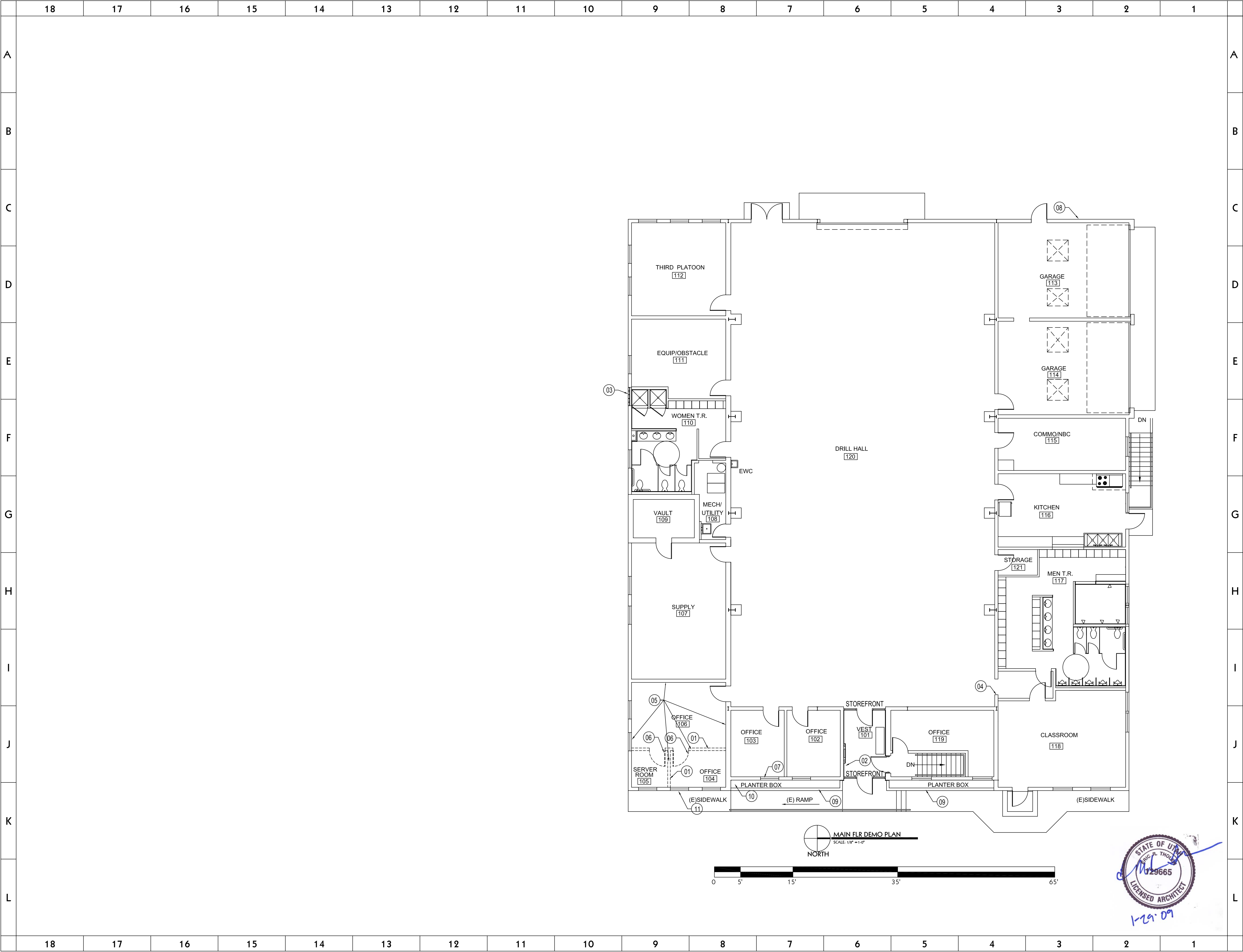
SHEET TITLE

**SITE PLAN**

REVISIONS	DATE	BY	DESCRIPTION
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DRAWN BY <b>JRA</b>	CHECKED BY <b>ERT</b>
PROJECT NO. <b>08032470 VR</b>	DRAWING NO. <b>AS101</b>
DATE <b>DEC 18, 2008</b>	

Utah National Guard - RENOVATION OF READINES CENTER - VERNAL, UTAH Do not remove this notice.



CONSULTANT INFORMATION

KEYED NOTES

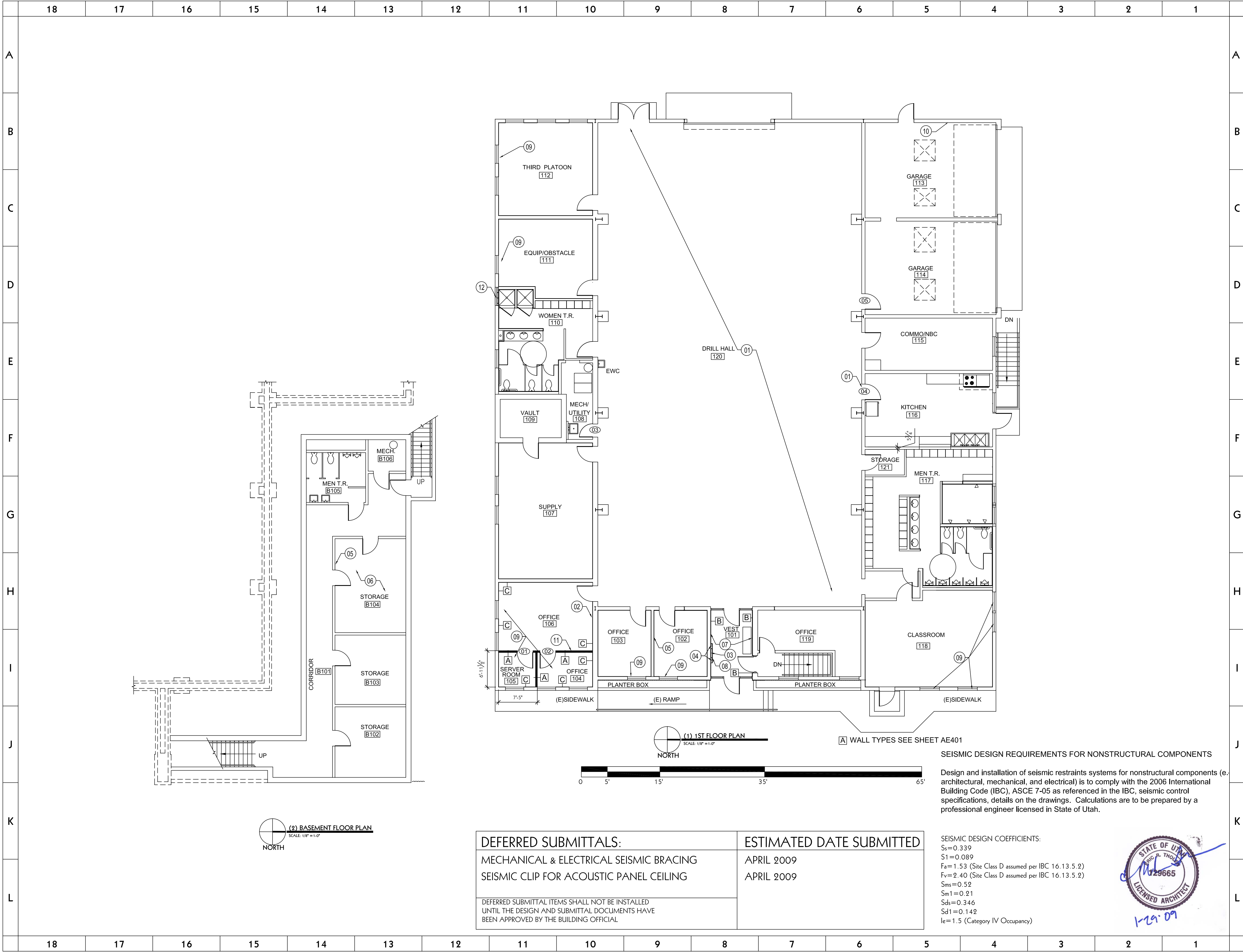
01. REMOVE EXISTING WALL SHOWN DASHED - COORDINATE RE-LOCATION OF EXISTING ITEMS ATTACHED TO WALL WITH NATIONAL GUARD
02. RELOCATE EXISTING FIRE ALARM PULL STATION/HORN (SEE INTERIOR ELEVATION).
03. REMOVE EXTERIOR BRICK WINDOW INFILL FROM WINDOW OPENING. EXISTING INTERIOR BLOCK INFILL TO REMAIN. TAKE CARE NOT TO DAMAGE INTERIOR BLOCK
04. REMOVE EXISTING DOOR HINGE AND STRIKE PLATE FROM FRAME.
05. REMOVE ALL EXISTING WOOD PANELING & FURRING ON ALL WALLS IN OFFICE'S 104, 105, 106.
6. REMOVE EXISTING DOOR AND HARDWARE.
7. REMOVE & SALVAGE EXISTING WINDOW MOUNTED AC UNIT TO NATIONAL GAURD.
08. REMOVE EXISTING COVER PANEL OVER HOLE IN WALL.
09. CAREFULLY REMOVE EXISTING BRICK CAP ON PLANTER AND SALVAGE BRICK FOR USE IN REPLACEMENT OF DAMAGED BRICK
10. REMOVE EXISTING IRRIGATION SYSTEM IN PLANTERS AND CAP WATER LINES INSIDE BUILDING
11. REMOVE EXISTING BOLT THROUGH WALL SEE ELEVATION

- GENERAL NOTES
1. ALL ITEMS (ie DESKS, CHAIRS FILING CABINETS WALL HANGINGS, ETC) IN ROOMS WHERE WORK IS BEING DONE SHALL BE TEMPORARILY RELOCATED AND PROTECTED WHILE WORK IS BEING COMPLETED AND REPLACED WHEN WORK IS FINISHED. COORDINATE WITH THE NATIONAL GUARD.
2. TAKE NECESSARY PRECAUTIONS TO PROTECT ALL EQUIPMENT FROM DAMAGE DURING CONSTRUCTION.

**Utah National Guard**  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

SHEET TITLE			
DEMOLITION PLAN			
REVISIONS	DATE	BY	DESCRIPTION
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DRAWN BY		CHECKED BY	
JRA		ERT	
PROJECT NO.		DRAWING NO.	
08032470 VR		AD101	
DATE			
DEC 18, 2008			





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CONSULTANT INFORMATION

KEYED NOTES

01. REPOINT MORTAR JOINTS ABOVE EXISTING DOOR OPENING.

02. REPOINT CRACKS AND MORTAR JOINT IN WALL PRIOR TO INSTALLING NEW HAT CHANNEL & 5/8" GYP BD ON WALL.

03. EXISTING FIRE CONTROL PANEL. TO REMAIN

04. RELOCATE EXISTING FIRE PULL STATION & STROBE AS SHOWN ON ELEVATION 5/AE201

05. RE-FINISH & REPAIR EXISTING GYP BD WALL PRIOR TO RE-PAINTING.

06. REPAIR AND REPLACE DAMAGED ACOUSTICAL CEILING TILES (FIELD VERIFY EXTENT OF DAMAGE) THIS ROOM.

07. LAMINATE 5/8" GYP BD OVER EXISTING WALL PANELING

08. FURR OUT WALL TO FACE OF EXISTING FIRE CONTROL PANEL AND ON EACH SIDE OF PANEL SO THAT FIRE PULL STATION AND STROBE CAN BE MOVED INTO FURRED OUT AREA. SEE ELEVATION 5/AE201

09. PROVIDE NEW BLINDS FOR ALL WINDOWS IN THIS ROOM.

10. REPAIR EXISTING CMU WALL ON INSIDE AND DAMAGE BRICK ON EXTERIOR - MATCH ADJACENT

11. REPLACE EXISTING WOOD STUD WALLS WITH NEW METAL STUD & GYP BD. WALLS

12. INSTALL NEW ALUMINUM WINDOW W/ OBSCURE GLASS IN OPENING. PAINT CMU WALL BEHIND WINDOW. THIS WINDOW WILL NEED TO BE INSTALLED FROM THE EXTERIOR OF THE BUILDING. THERE IS NO ACCESS FROM THE INSIDE. SEE DETAIL 7/AE401

13. RESURFACE ENTIRE DRILL HALL FLOOR WITH NEW RESINOUS FLOORING SYSTEM

GENERAL NOTES

1. ALL ITEMS (ie DESKS, CHAIRS, FILING CABINETS, WALL HANGINGS, ETC) IN ROOMS WHERE WORK IS BEING DONE SHALL BE TEMPORARILY RELOCATED AND PROTECTED WHILE WORK IS BEING COMPLETED AND REPLACED WHEN WORK IS FINISHED. COORDINATE WITH THE GUARD.

2. TAKE NECESSARY PRECAUTIONS TO PROTECT ALL EQUIPMENT FROM DAMAGING DURING CONSTRUCTION.

Utah National Guard  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

SHEET TITLE  
**1ST FLOOR PLN**

REVISIONS	DATE	BY	DESCRIPTION
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DRAWN BY <b>JRA</b>	CHECKED BY <b>ERT</b>
PROJECT NO. <b>08032470 VR</b>	DRAWING NO. <b>AE101</b>
DATE <b>DEC 18, 2008</b>	

SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS

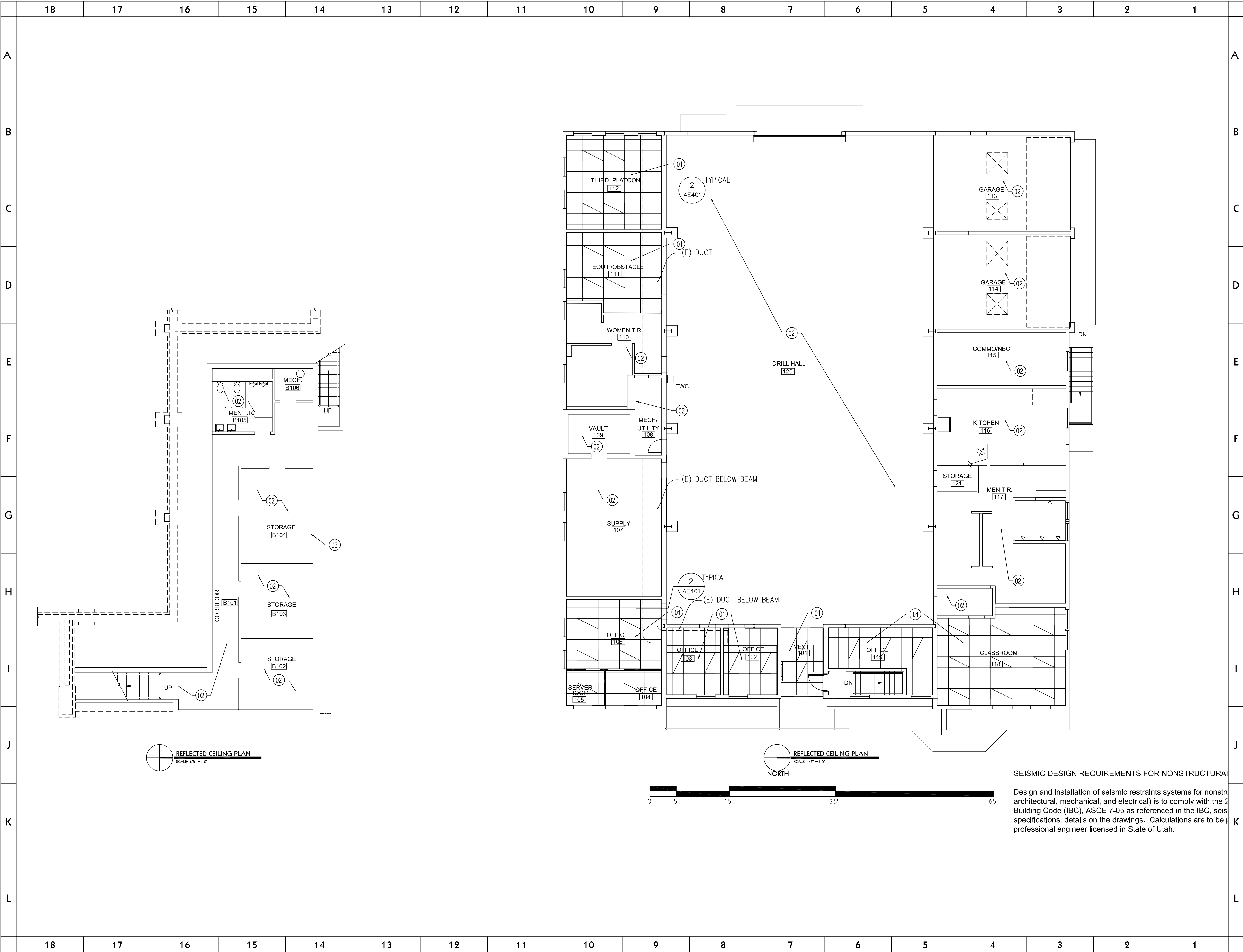
Design and installation of seismic restraints systems for nonstructural components (e. architectural, mechanical, and electrical) is to comply with the 2006 International Building Code (IBC), ASCE 7-05 as referenced in the IBC, seismic control specifications, details on the drawings. Calculations are to be prepared by a professional engineer licensed in State of Utah.


SEISMIC DESIGN COEFFICIENTS:

S<sub>s</sub>=0.339  
S<sub>1</sub>=0.089  
F<sub>a</sub>=1.53 (Site Class D assumed per IBC 16.13.5.2)  
F<sub>v</sub>=2.40 (Site Class D assumed per IBC 16.13.5.2)  
S<sub>ms</sub>=0.52  
S<sub>m1</sub>=0.21  
S<sub>ds</sub>=0.346  
S<sub>d1</sub>=0.142  
I<sub>e</sub>=1.5 (Category IV Occupancy)

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CONSULTANT INFORMATION


KEYED NOTES


01. NEW SUSPENDED ACOUSTICAL PANEL CEILING SEE SHEET AE401 FOR DETAILS

02. EXISTING CEILING TO REMAIN

03. REPAIR DAMAGED WALL ANGLE AND REPLACE MISSING CEILING TILE

GENERAL NOTES





Utah National Guard  
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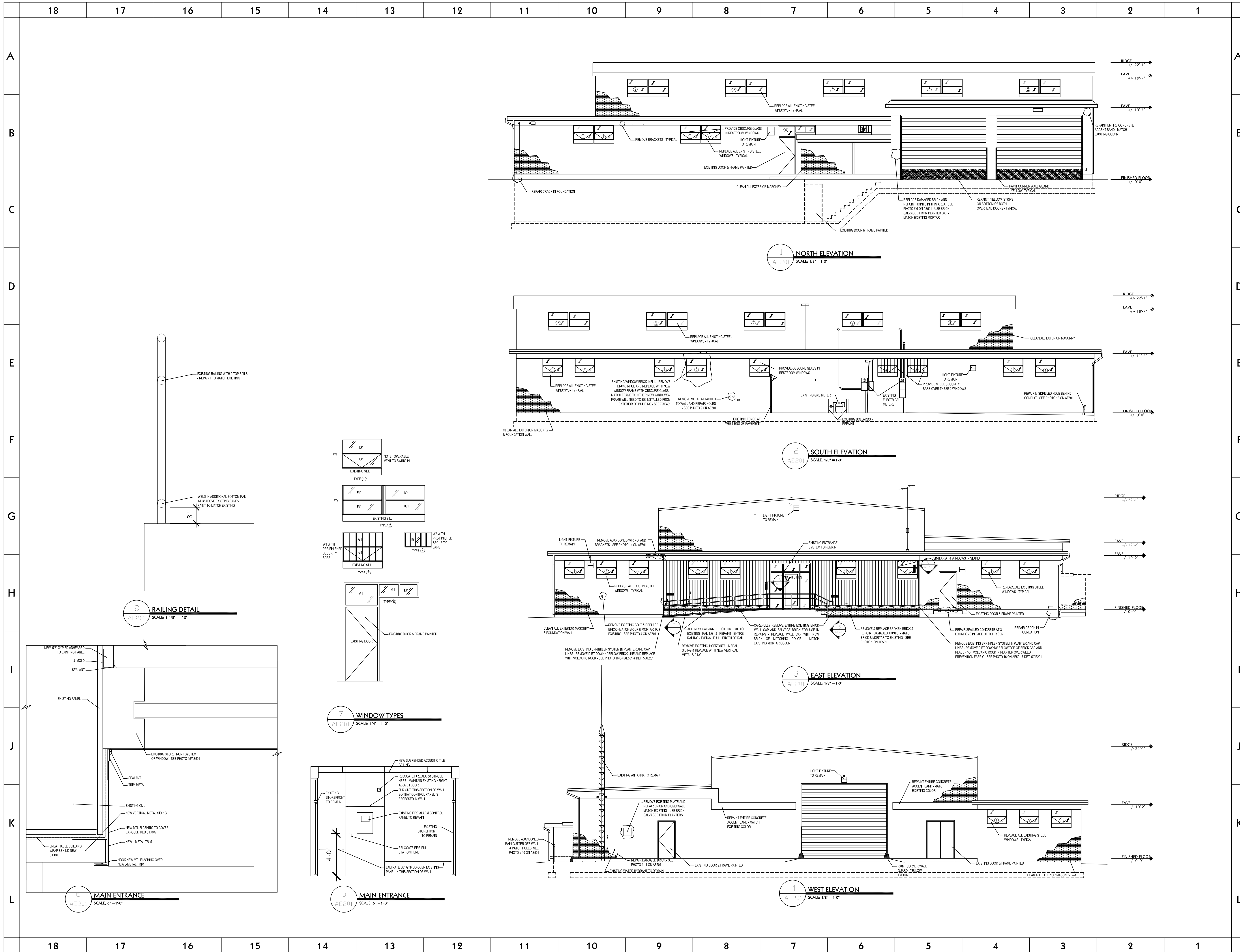
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CEILING PLAN			
REVISIONS	DATE	BY	DESCRIPTION
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DRAWN BY <b>JRA</b>	CHECKED BY <b>ERT</b>
PROJECT NO. <b>08032470 VR</b>	DRAWING NO. <b>AE102</b>
DATE <b>DEC 18, 2008</b>	

SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL

Design and installation of seismic restraints systems for nonstructural architectural, mechanical, and electrical) is to comply with the 2006 International Building Code (IBC), ASCE 7-05 as referenced in the IBC, seismic design specifications, details on the drawings. Calculations are to be performed by a professional engineer licensed in State of Utah.

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CONSULTANT INFORMATION

KEYED NOTES



GENERAL NOTES

- WHILE CLEANING OR WORKING ON THE EXTERIOR OF THE BUILDING TAKE PRECAUTIONS TO PROTECT ANY PARKED VEHICLES OR STORED MATERIALS FROM DAMAGE.
- CLEANING OF EXTERIOR MASONRY SHALL BE COMPLETED AFTER REPAIRS TO MASONRY AND OTHER EXTERIOR FINISHES ARE COMPLETE.
- PAINT ALL EXISTING EXTERIOR METAL DOORS, FRAMES, BOLLARDS, & RAILINGS

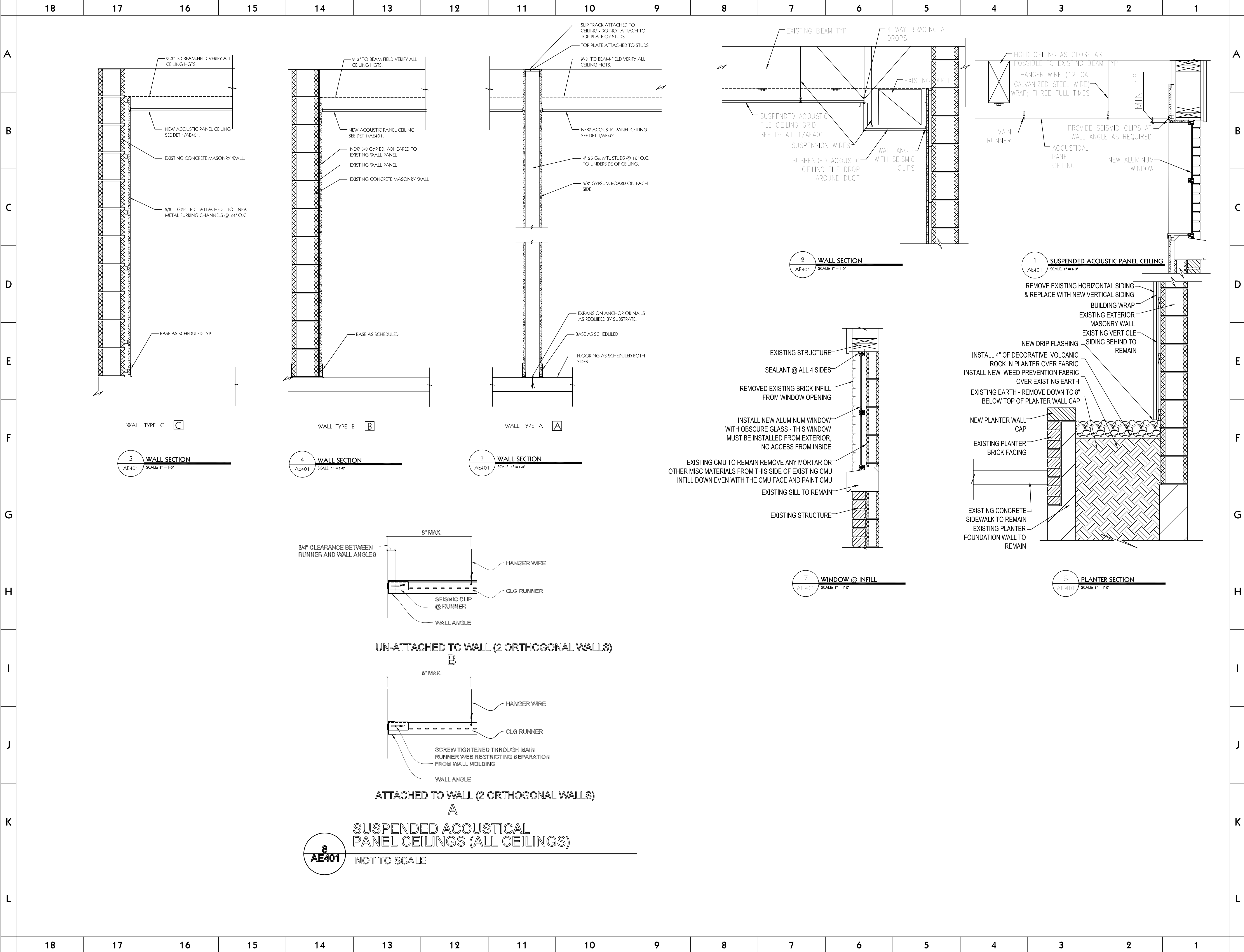



**Utah National Guard**  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

SHEET TITLE  
**ELEVATIONS**

REVISIONS	DATE	BY	DESCRIPTION
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DRAWN BY <b>JRA</b>		CHECKED BY <b>ERT</b>	
PROJECT NO. <b>08032470 VR</b>		DRAWING NO. <b>AE201</b>	
DATE <b>DEC 18, 2008</b>			









**Harris & Associates**  
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Salt Lake City, Utah 84111-1604  
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CONSULTANT INFORMATION

KEYED NOTES

GENERAL NOTES





**Utah National Guard**  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

SHEET TITLE

**SECTIONS**

REVISIONS	DATE	BY	DESCRIPTION
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DRAWN BY  
**JRA**

CHECKED BY  
**ERT**

PROJECT NO.  
**08032470 VR**

DRAWING NO.  
**AE401**

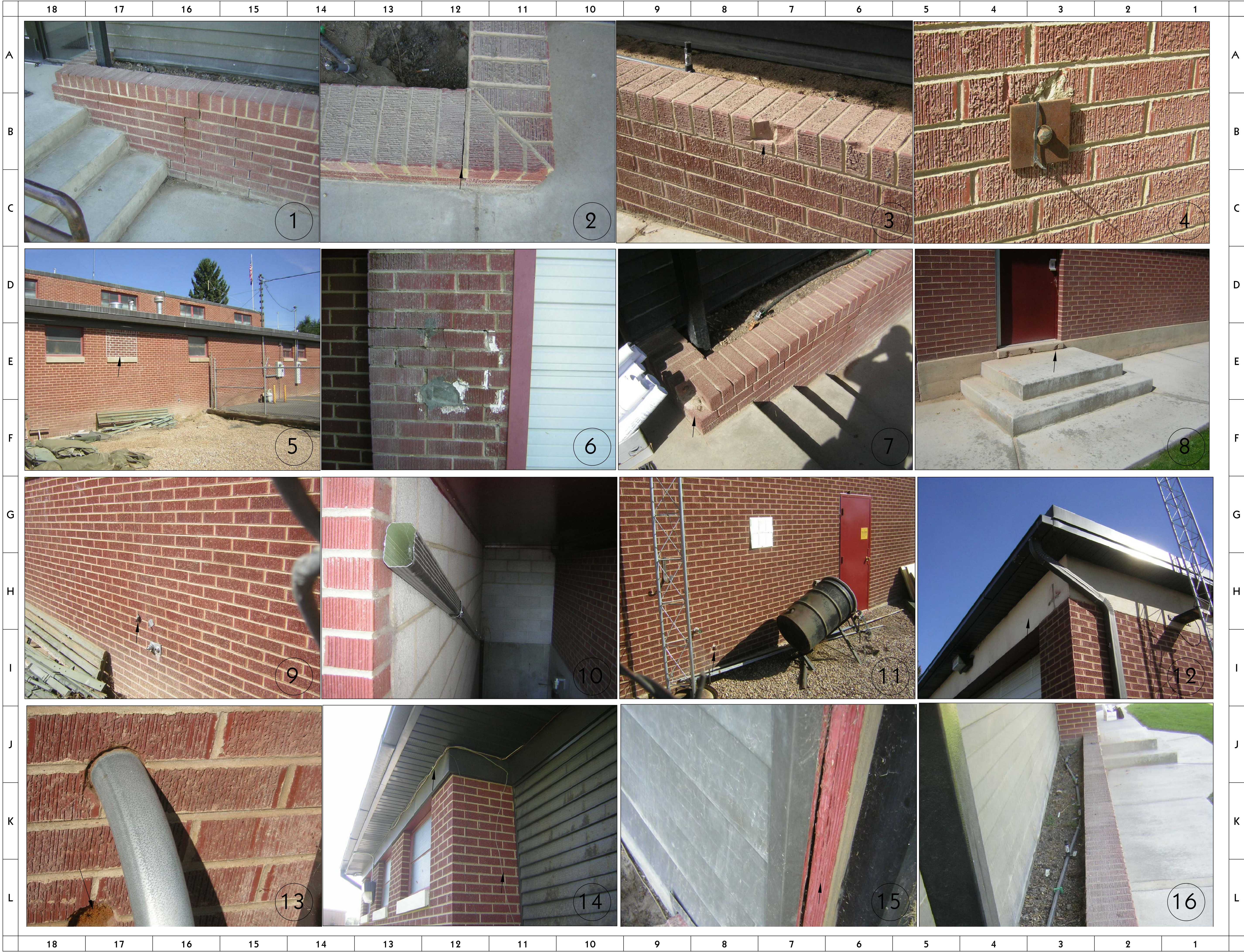
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**DEC 18, 2008**

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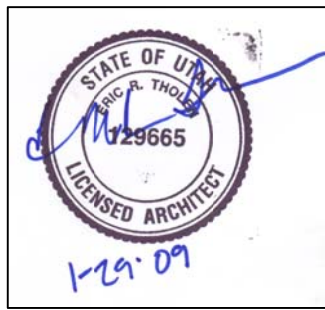


CONSULTANT INFORMATION

KEYED NOTES

GENERAL NOTES

1. NOTE: ALL PHOTOS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS



**Utah National Guard**  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
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SHEET TITLE  
**SITE PHOTOS**

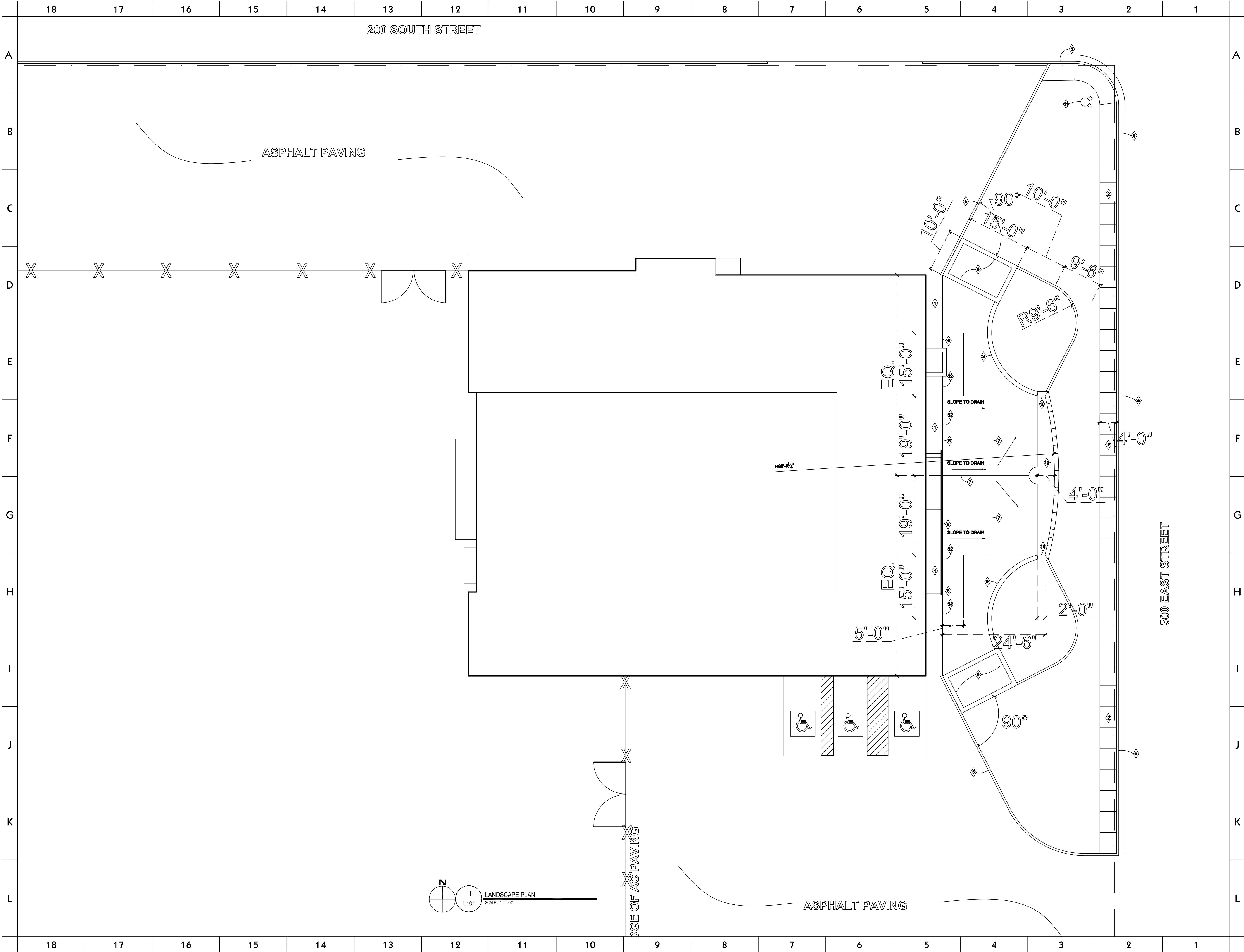
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DRAWN BY **JRA** CHECKED BY **ERT**

PROJECT NO. **08032470 VR** DRAWING NO.

DATE **DEC 18, 2007** **AE601**





CONSULTANT INFORMATION

KEYED NOTES

- EXISTING WALKWAY
- PROPOSED WALKWAY
- REMOVE EXISTING CONCRETE
- PROPOSED PLANTER WALL
- EXISTING CURB/GUTTER
- DRILL AND DOWEL @ 5 FOOT INTERVALS USING #4 REBAR.
- CONTROL JOINT
- T.W. 24"
- T.W. 12"
- T.W. 18"
- EXISTING HYDRANT
- EXPANSION JOINT

LAYOUT NOTES:

- FOR THE PURPOSE OF LAYOUT, ASSUME A BASE ZERO POINT @ THE EDGE OF THE EXISTING WALK.
- WHEN LAYING OUT THE CONCRETE PATIO SLOPE THE CONCRETE AWAY FROM THE BUILDING AND CREATE A HIGH-POINT IN THE CENTER THEREOF.
- WHEN FOLLOWING THE DIMENSIONS PROVIDED ON THE DRAWING, IT IS ASSUMED THAT THE BASE DATA PROVIDED IS ACCURATE. VERIFY IN THE FIELD AND RESOLVE ANY DISCREPANCIES WITH THE ARCHITECT BEFORE PROCEEDING.



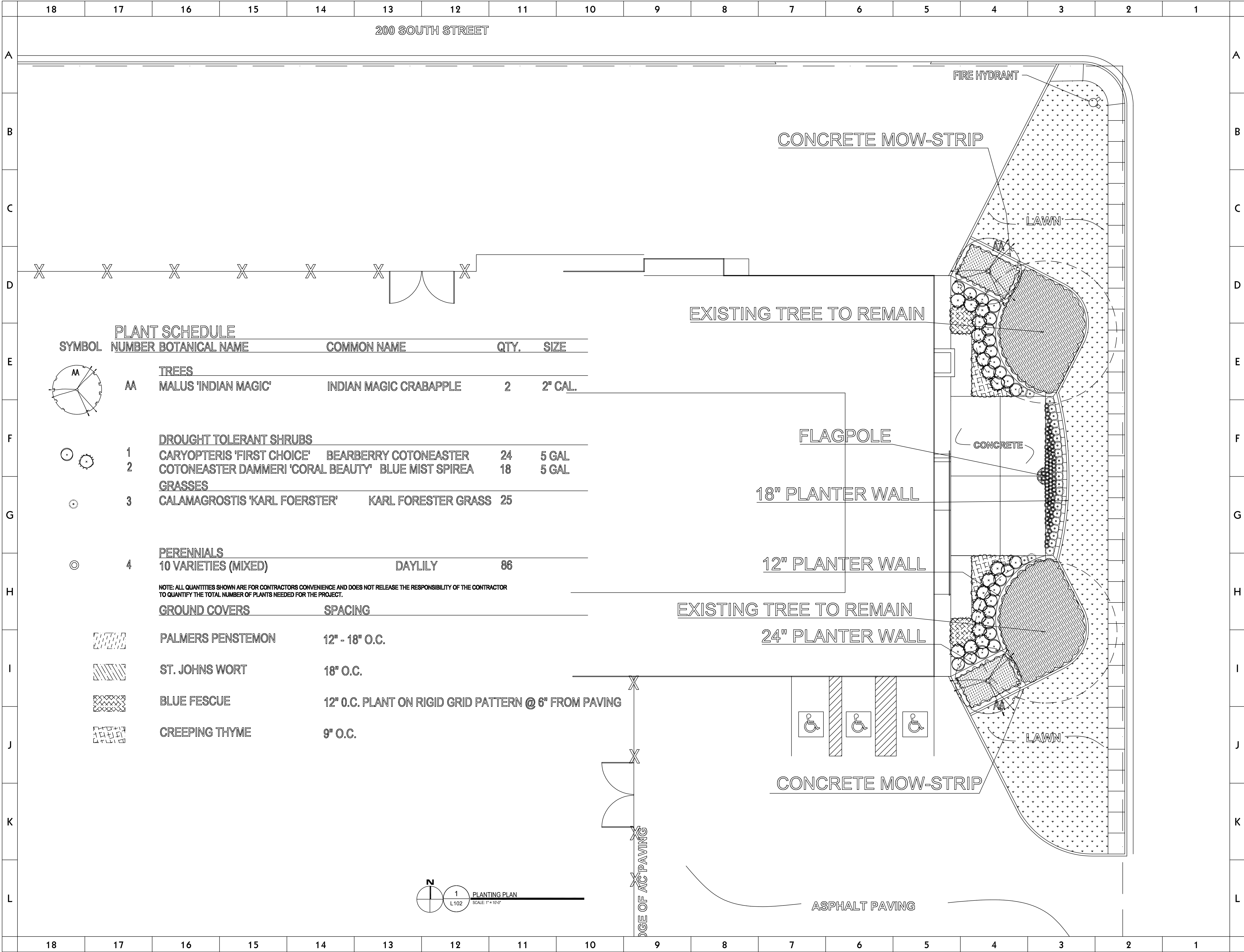
**Utah National Guard**  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

SHEET TITLE  
**LANDSCAPE PLAN**

REVISIONS	DATE	BY	DESCRIPTION
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DRAWN BY <b>CTT</b>	CHECKED BY <b>DCR</b>
PROJECT NO. <b>08032470 VR</b>	DRAWING NO. <b>L101</b>
DATE <b>DEC. 30, 2008</b>	





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265 East 100 South Suite 350  
Salt Lake City, Utah 84111-1604  
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CONSULTANT INFORMATION

KEYED NOTES

GENERAL NOTES

1. TAKE NECESSARY PRECAUTIONS TO PROTECT ALL EQUIPMENT FROM DAMAGING DURING CONSTRUCTION.

**Utah National Guard**  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

SHEET TITLE  
**PLANTING PLAN**

REVISIONS	DATE	BY	DESCRIPTION
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PROJECT NO.  
**08032470 VR**

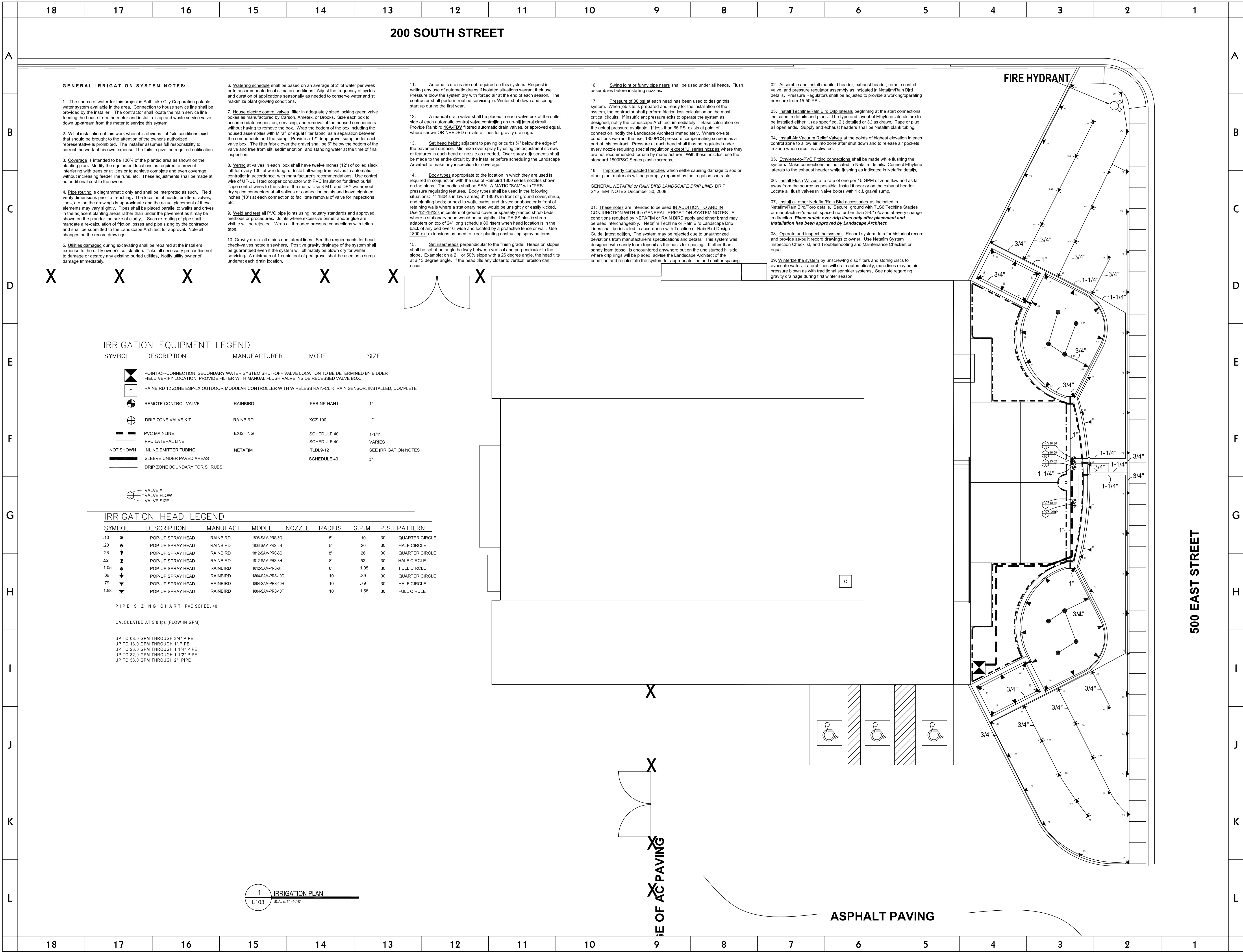
DATE  
**DEC. 30, 2008**

CHECKED BY  
**DCR**

DRAWING NO.  
**L102**

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Salt Lake City, Utah 84111-1604  
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CONSULTANT INFORMATION

KEYED NOTES

GENERAL NOTES

Utah National Guard  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

SHEET TITLE  
IRRIGATION PLAN

REVISIONS	DATE	BY	DESCRIPTION
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DRAWN BY CTT	CHECKED BY DCR
PROJECT NO. 08032470 VR	DRAWING NO. L103
DATE DEC. 30, 2008	



## KEYED NOTES

AMEND SOIL WITH ONE LARGE BALE OF  
PEAT PER TREE PIT. DISTRIBUTE  
UNIFORMLY INTO TOP 12" OF  
ROTO-TILLED SOIL THROUGHOUT PIT.

TREES WITH INJURED TRUNKS WILL BE REJECTED OUTRIGHT.

APPLY ANTI-DESSICANT SPRAY. THIN BRANCHES BY 1/3. TREES WITH CUT LEADERS WILL BE REJECTED.

REMOVE SHIPPERS TREE WRAP BEFORE  
FINAL ACCEPTANCE.

PLANTING AREA SHALL BE 3 TO 5 TIMES  
ROOT BALL DIAMETER. USE A  
ROTO-TILLER OR SHOVEL TO LOOSEN &  
MIX SOIL IN THIS ENTIRE AREA. DIG A  
SHALLOW HOLE IN WHICH TO STABILIZE  
ROOT BALL. SET BALL ON SOLID  
GROUND.

MAINTAIN 3' DIAMETER GRASS-FREE  
MULCH RING AROUND TRUNK IN LAWN  
AREAS.

3" MINIMUM LAYER OF SHREDDED BARK  
MULCH.

## SCALE NTS

NOTE: INSTALL TAN COLORED VALVE BOXES IN PLANTING BEDS AND GREEN COLORED VALVE BOXES IN LAWN AREAS.

## GENERAL NOTES



Utah National Guard  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

REVISIONS	DATE	BY	DESCRIPTION
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PROJECT NO. 08032470 VP DRAWING NO.

DATE DEC. 30, 2008

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LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS																		
MECHANICAL																		
<div><div><div></div><div>POSITIVE PRESSURE DUCT - RISE</div></div><div><div></div><div>POSITIVE PRESSURE DUCT - DROP</div></div><div><div></div><div>NEGATIVE PRESSURE DUCT - RISE</div></div><div><div></div><div>NEGATIVE PRESSURE DUCT - DROP</div></div><div><div></div><div>ROUND DUCT - RISE</div></div><div><div></div><div>ROUND DUCT - DROP</div></div><div><div></div><div>TURNING VANES</div></div><div><div></div><div>FRESH AIR LOUVER</div></div><div><div></div><div>RELIEF AIR OR EXHAUST AIR LOUVER</div></div><div><div><div><div></div><div>12X12 200</div></div><div><div></div><div>22X22 200</div></div><div><div></div><div>12X12 200</div></div><div><div></div><div>24X10 200</div></div><div><div></div><div>12X12 200</div></div><div><div></div><div>12X12 200</div></div><div><div></div><div>24X10 200</div></div><div><div></div><div>3'-0" SLOTS 6 48" 400</div></div></div><div>TOP FIGURES INDICATE NECK SIZE. BOTTOM FIGURE INDICATES CFM.</div></div><div><div></div><div>FLEXIBLE DUCT CONNECTION</div></div><div><div></div><div>FLEXIBLE DUCT</div></div><div><div></div><div>FAN</div></div><div><div></div><div>12/8</div></div><div><div></div><div>12#</div></div><div><div></div><div>UP</div></div><div><div></div><div>DN</div></div><div><div></div><div>R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR</div></div><div><div></div><div>12/12 8/8</div></div><div><div></div><div>12/12 12#</div></div><div><div></div><div>R 6"</div></div><div><div></div><div>12# 12/12</div></div><div><div></div><div>12# 12/12</div></div><div><div></div><div>FD</div></div><div><div></div><div>FSD</div></div><div><div></div><div>SD</div></div><div><div></div><div>BDD</div></div><div><div></div><div>ATC DR</div></div><div><div></div><div>ATC DAMPER</div></div><div><div></div><div>AP</div></div><div><div></div><div>COIL</div></div><div><div></div><div>4-WAY BLOW PATTERN</div></div><div><div></div><div>3-WAY BLOW PATTERN</div></div><div><div></div><div>2-WAY BLOW PATTERN</div></div><div><div></div><div>2-WAY BLOW PATTERN</div></div><div><div></div><div>1-WAY BLOW PATTERN</div></div><div><div></div><div>SD</div></div><div><div></div><div>UNIT HEATER</div></div></div>																		
PLUMBING																		
<div><div><div></div><div>FLOOR SINK</div></div><div><div></div><div>FLOOR DRAIN</div></div><div><div></div><div>FLOOR CLEAN-OUT OR CLEAN-OUT TO OUTSIDE DRAIN</div></div><div><div></div><div>DOWNSPOUT NOZZLE</div></div><div><div></div><div>ARROW INDICATES DIRECTION OF FLOW IN PIPE</div></div><div><div></div><div>CHECK VALVE</div></div><div><div></div><div>PRESSURE REDUCING, EXTERNAL PRESSURE VALVE</div></div><div><div></div><div>PRESSURE REDUCING, SELF CONTAINED VALVE</div></div><div><div></div><div>ATC VALVE - 2 WAY</div></div><div><div></div><div>ATC VALVE - 3 WAY</div></div><div><div></div><div>SOLENOID VALVE</div></div><div><div></div><div>GATE VALVE</div></div><div><div></div><div>MANUAL BALL VALVE</div></div><div><div></div><div>GLOBE VALVE</div></div><div><div></div><div>TEMPERATURE AND PRESSURE TEST PORT</div></div><div><div></div><div>PRESSURE SWITCH</div></div><div><div></div><div>LUBRICATED PLUG VALVE</div></div><div><div></div><div>CALIBRATED BALANCING VALVE WITH GPM INDICATED FLOW CONTROL VALVE</div></div><div><div></div><div>BRANCH - BOTTOM CONNECTION</div></div><div><div></div><div>BRANCH - TOP CONNECTION</div></div><div><div></div><div>BRANCH - SIDE CONNECTION</div></div><div><div></div><div>RISE OR DROP</div></div><div><div></div><div> RISER - DOWN (ELBOW)</div></div><div><div></div><div> RISER - DOWN (ELBOW)</div></div><div><div></div><div>VENT THRU ROOF</div></div><div><div></div><div>WATER HAMMER ARRESTOR</div></div><div><div></div><div>INLINE PUMP</div></div><div><div></div><div>INLINE PUMP</div></div><div><div></div><div>CLEAN-OUT</div></div><div><div></div><div>RELIEF VALVE</div></div><div><div></div><div>ANGLE VALVE</div></div><div><div></div><div>FLOW METER</div></div><div><div></div><div>UNION</div></div><div><div></div><div>GAS COCK</div></div><div><div></div><div>SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE</div></div><div><div></div><div>FLEXIBLE EXPANSION JOINT</div></div><div><div></div><div>THERMOMETER - TEMP RANGE AS INDICATED</div></div><div><div></div><div>PRESSURE GAUGE WITH SHUT-OFF COCK</div></div><div><div></div><div>PRESSURE GAUGE WITH PIGTAIL</div></div><div><div></div><div>LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN</div></div><div><div></div><div>BRANCH VALVE (PIPE SIZES 2" AND SMALLER) BUTTERFLY VALVE (PIPE SIZES 2-1/2" AND LARGER)</div></div><div><div></div><div>MOTOR OPERATED BUTTERFLY VALVE</div></div><div><div></div><div>VALVE IN RISE</div></div><div><div></div><div>AIR VENT-MANUAL</div></div><div><div></div><div>AIR VENT-AUTO</div></div><div><div></div><div>FLOW SWITCH</div></div><div><div></div><div>REDUCER</div></div><div><div></div><div>CONCENTRIC REDUCER</div></div><div><div></div><div>ECCENTRIC REDUCER</div></div></div>																		
PLUMBING CONT.																		
<div><div><div></div><div>HOSE BIBB</div></div><div><div></div><div>PIPE CAP</div></div><div><div></div><div>SWITCH</div></div><div><div></div><div>SENSOR</div></div><div><div></div><div>THERMOSTAT</div></div><div><div></div><div>NIGHT THERMOSTAT</div></div><div><div></div><div>FILL PORT</div></div><div><div></div><div>DRAIN PAN AND P-TRAP</div></div><div><div></div><div>FIXTURE FROM LEVEL ABOVE</div></div><div><div></div><div>FLOW METER ORIFICE</div></div><div><div></div><div>FLANGE</div></div><div><div></div><div>90° ELBOW</div></div><div><div></div><div>45° ELBOW</div></div><div><div></div><div>LEADER INDICATES DOWNWARD SLOPE</div></div></div>																		
LINETYPES																		
<div><div></div><div>CHEMICAL FEED</div></div> <div><div></div><div>DOMESTIC COLD WATER (DCW)</div></div> <div><div></div><div>DOMESTIC HOT WATER (DHW)</div></div> <div><div></div><div>DOMESTIC HOT WATER RETURN (DHW-R)</div></div> <div><div></div><div>GEO THERMAL SUPPLY</div></div> <div><div></div><div>GEO THERMAL RETURN</div></div> <div><div></div><div>NATURAL GAS</div></div> <div><div></div><div>HEATING HOT WATER RETURN</div></div> <div><div></div><div>HEATING HOT WATER SUPPLY</div></div> <div><div></div><div>ROOF DRAIN</div></div> <div><div></div><div>ROOF DRAIN OVERFLOW</div></div> <div><div></div><div>SEWER (BELOW GRADE)</div></div> <div><div></div><div>SEWER (ABOVE GRADE)</div></div> <div><div></div><div>VENT (SEWER)</div></div>																		
SYMBOLS																		
<div><div></div><div>P-1/ PLUMBING FIXTURES</div></div> <div><div></div><div>POINT OF CONNECTION</div></div> <div><div></div><div>SECTION TAG - TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.</div></div> <div><div></div><div>DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.</div></div> <div><div></div><div>E/I EQUIPMENT IDENTIFICATION</div></div> <div><div></div><div>1/ KEYED NOTE IDENTIFICATION</div></div> <div><div></div><div>1/ KITCHEN EQUIPMENT IDENTIFICATION</div></div>																		
FIRE																		
<div><div></div><div>HOSE VALVE</div></div> <div><div></div><div>NRS GATE VALVE WITH SUPERVISION</div></div> <div><div></div><div>FLOW SWITCH</div></div> <div><div></div><div>FIRE RISER</div></div> <div><div></div><div>SPRINKLER HEAD</div></div> <div><div></div><div>FIRE SPRINKLER WATER</div></div>																		

PLUMBING CONT.

HOSE BIBB

PIPE CAP

SWITCH

SENSOR

THERMOSTAT

NIGHT THERMOSTAT

FILL PORT

DRAIN PAN AND P-TRAP

FIXTURE FROM LEVEL ABOVE

FLOW METER  
DRIFT

FLANGE

90°  
ELBOW

45°  
ELBOW

LEADER INDICATES  
DOWNWARD SLOPE

LINETYPES

CHEMICAL  
FEED

DOMESTIC COLD  
WATER (DCW)

DOMESTIC HOT WATER (DHW)

DOMESTIC HOT WATER  
RETURN (DHW-R)

GEO THERMAL SUPPLY

GEO THERMAL RETURN

NATURAL GAS

HEATING HOT WATER  
RETURN

HEATING HOT WATER  
SUPPLY

ROOF  
DRAIN

ROOF DRAIN OVERFLOW

SEWER (BELOW GRADE)

SEWER (ABOVE  
GRADE)

VENT (SEWER)

SYMBOLS

P-1

PLUMBING  
FIXTURES

POINT OF CONNECTION

SECTION TAG - TOP FIGURE IS  
SECTION NO.  
BOTTOM FIGURE IS SHEET NO.

DETAIL TAG - TOP FIGURE IS DETAIL  
NO.  
BOTTOM FIGURE IS SHEET NO.

EQUIPMENT IDENTIFICATION

KEYED NOTE IDENTIFICATION

KITCHEN EQUIPMENT  
IDENTIFICATION

FIRE

HOSE  
VALVE

NRS GATE VALVE  
WITH SUPERVISION

FLOW SWITCH

FIRE RISER

SPRINKLER HEAD

FIRE SPRINKLER  
WATER

265 East 100 South Suite 350  
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CONSULTANT INFORMATION

VAN BOERUM  
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330 South 300 East 801.530.3148 T  
Salt Lake City, UT 84111 801.530.3150 F  
VBFA Project Number: 3366

KEYED NOTES

1. ----

Utah National Guard

RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

SHEET TITLE

REVISIONS	DATE	BY	DESCRIPTION
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PROJECT NO.

DRAWING NO.

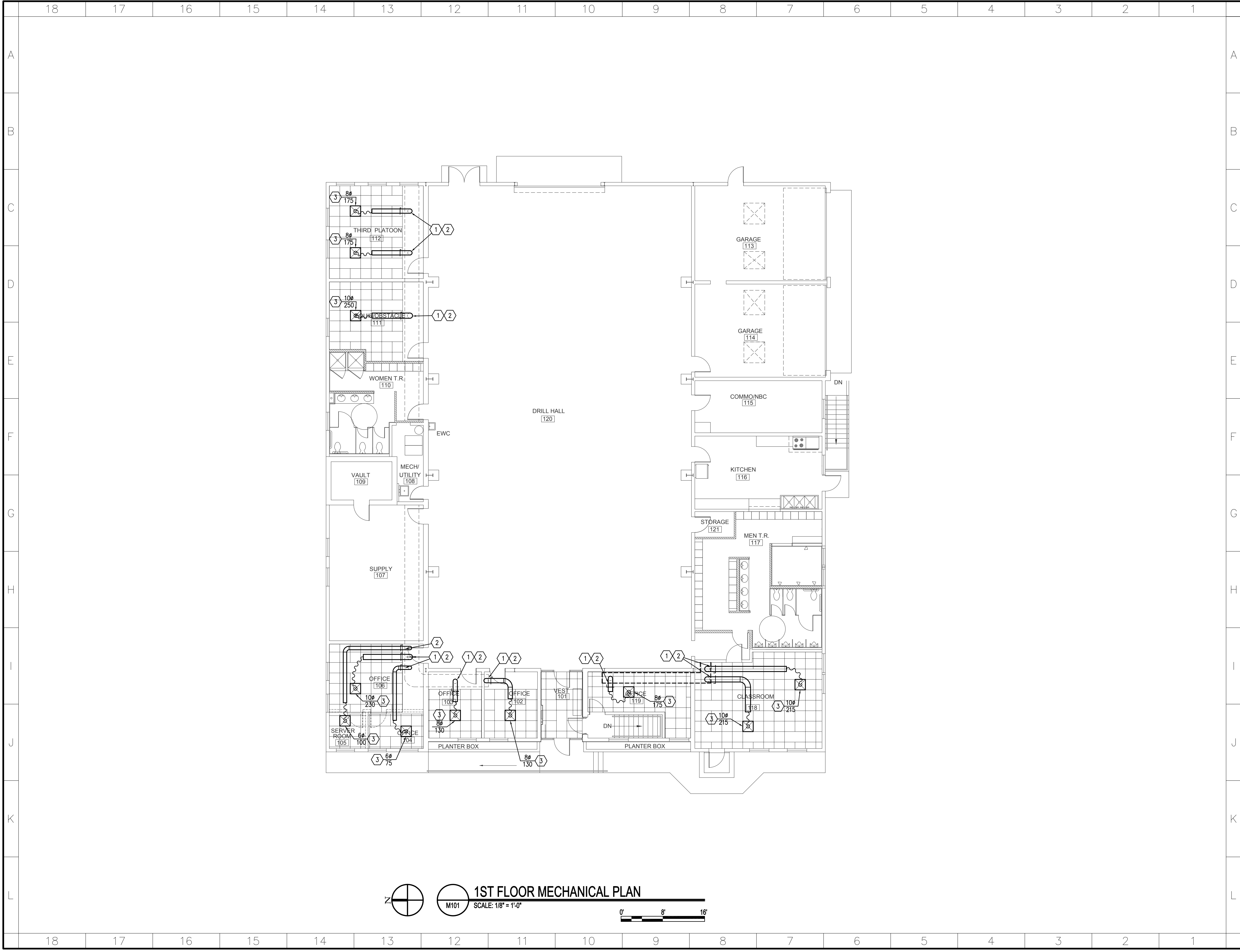
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Utah National Guard - RENOVATION OF READINESS CENTER - VERNAL, UTAH


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 **1ST FLOOR MECHANICAL PLAN**  
M101 SCALE: 1/8" = 1'-0"  






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Salt Lake City, UT 84111 801.530.3150 F  
VBFA Project Number: 3366

**KEYED NOTES**   
1. REMOVE EXISTING SIDEWALL DIFFUSER AT DUCT. PATCH & SEAL DUCT OPENING. FIELD VERIFY EXACT LOCATIONS AND NUMBER.  
2. MAKE CONNECTION TO TOP OF EXISTING DUCT IN THIS AREA WITH NEW DUCT AND ROUTE TO NEW DIFFUSER AS INDICATED. CONFIRM EXACT LOCATION OF EXISTING DUCT AND POINT OF CONNECTION.  
3. INSTALL NEW DIFFUSER IN NEW CEILING GRID. COORDINATE LOCATION WITH LIGHTS AND OTHER CEILING ITEMS.

**Utah National Guard**  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

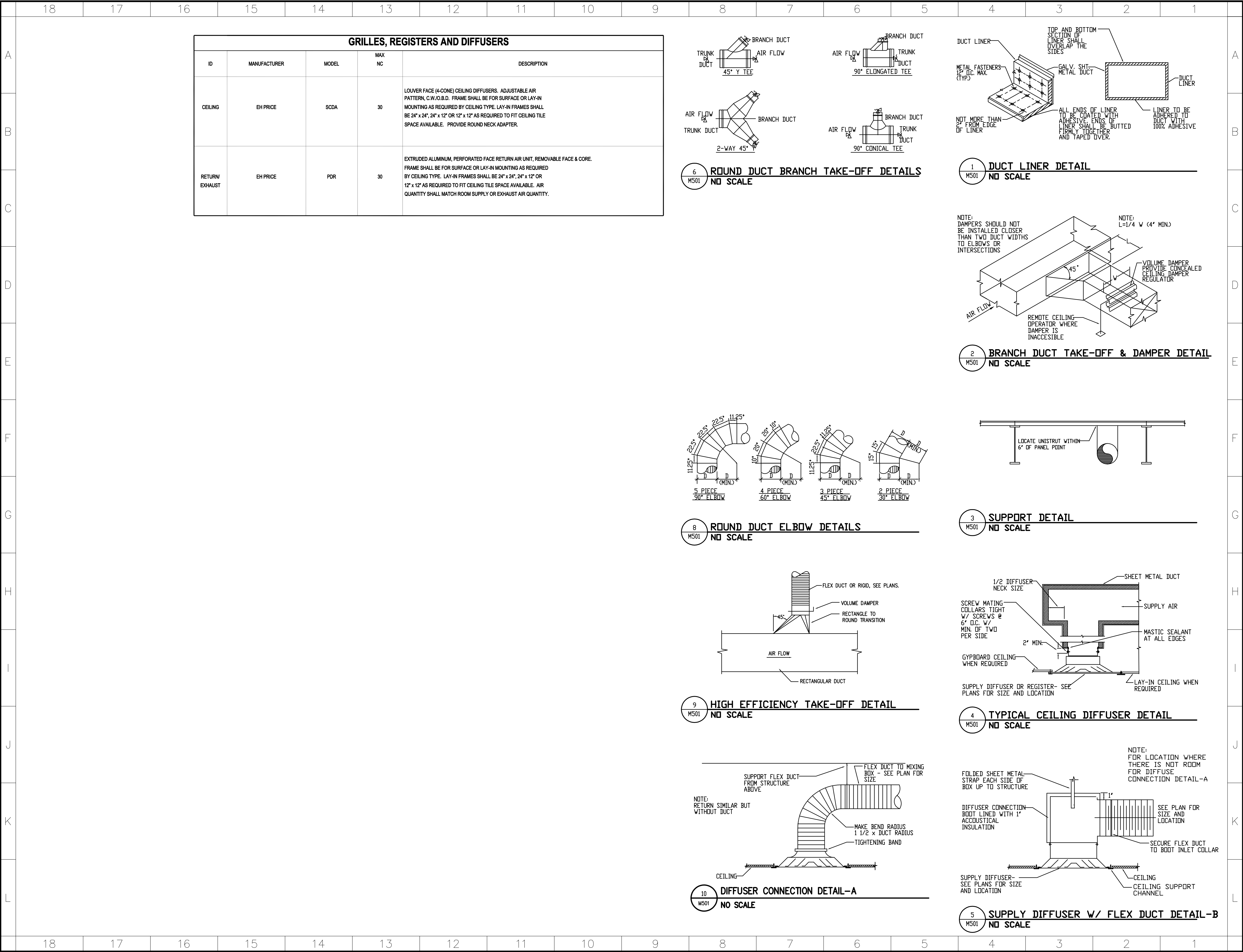
**SHEET TITLE**  
1ST FLOOR MECHANICAL PLAN

REVISIONS	DATE	BY	DESCRIPTION
			
			
			
			

DRAWN BY	CHECKED BY
PROJECT NO.	DRAWING NO.
DATE	<b>M101</b>

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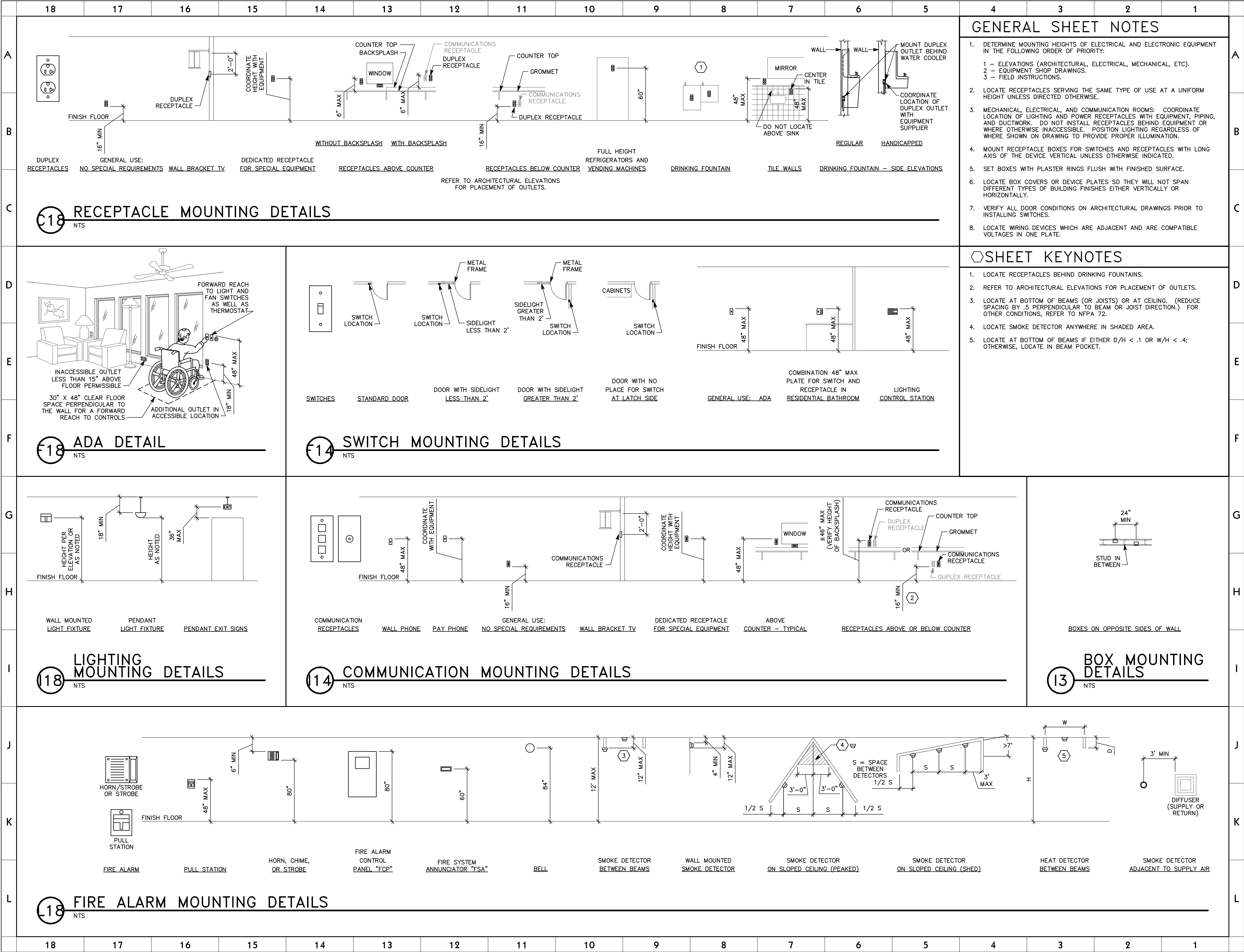


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	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1		
A	SYMBOL LEGEND				SYMBOL LEGEND				ABBREVIATIONS				DEFINITIONS				GENERAL ELECTRICAL NOTES			
	SYMBOL DESCRIPTION				SYMBOL DESCRIPTION				NOTE: ALL ABBREVIATIONS MAY NOT BE USED.				NOTE: ALL DEFINITIONS MAY NOT BE USED.							
	REFERENCE AND LINE SYMBOLS				LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)															
		DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.				FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.			1P 1PH 1WAY	SINGLE POLE SINGLE-PHASE ONE-WAY	KV KVA kVAR	KILOVOLT KILOVOLT AMPERE KILOVOLT AMPERE	<p>INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.</p> <p>DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.</p> <p>APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.</p> <p>FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."</p> <p>INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."</p> <p>PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."</p> <p>INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.</p> <p>TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...</p>							
B		ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.				FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.			2/C 2WAY	TWO-CONDUCTOR TWO-WAY	KW kWh	REACTIVE KILOWATT KILOWATT HOUR								
		ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.				EGRESS DIRECTION ARROW.			3/C 3PH 3WAY	THREE-CONDUCTOR THREE-PHASE THREE-WAY	LFMC	LED LIQUID TIGHT FLEXIBLE METAL CONDUIT								
		ROOM OR SPACE NUMBER.							4PDT 4PT	FOUR-POLE DOUBLE THROW FOUR-POLE SINGLE THROW	LPS LRA LTG	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT LOW PRESSURE SODIUM LOCKED ROTOR AMPS								
		KEYNOTE INDICATOR.							4W 4WAY	FOUR-WIRE FOUR-WAY	LV MATV	LOW VOLTAGE MASTER ANTENNA TELEVISION SYSTEM								
		REVISION INDICATOR.							AC ADA	ARMORED CABLE AMERICANS WITH DISABILITIES ACT	MAX MC	MAXIMUM METAL CLAD								
		EQUIPMENT INDICATOR.							ADJ AFF	ADJACENT ABOVE COUNTER	MCB MCC	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER								
		BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING.							AFG AIC	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERE INTERRUPTING CAPACITY	MCP MDP	MOTOR CIRCUIT PROTECTION MAIN DISTRIBUTION PANEL								
		BREAK, ROUND.							ALUM AMP	ALUMINUM AMPERE	MG MH	MOTOR GENERATOR MANHOLE								
D		NEW LINE: MEDIUM LINE.							ANN AP	ANNUNCIATOR ACCESS POINT (WIRELESS DATA)	MIN MLO	MINIMUM MAXIMUM OVERCURRENT PROTECTION								
		HIDDEN FEATURES LINE: HIDDEN, THIN LINE.							AR ASC	AS REQUIRED AMPS SHORT CIRCUIT	NA NC	NOT APPLICABLE NORMALLY CLOSED								
		EXISTING TO REMAIN LINE: THIN LINE.							ATS AVG	AUTOMATIC TRANSFER SWITCH AUDIO VISUAL	NEC NEMA	NATIONAL ELECTRICAL CODE NATIONAL FIRE PROTECTION ASSOCIATION								
		DEMOLITION LINE: DASHED, MEDIUM LINE.							BB XFMR	BUCK-BOOST TRANSFORMER										
E	WIRING METHODS								C CATV	CEILING MOUNTED COMMUNITY ANTENNA TELEVISION	NFC NFPA	NATIONAL FIRE CODE NATIONAL FIRE PROTECTION ASSOCIATION								
		WIRING.							CB CCBA	CIRCUIT BREAKER CUSTOM COLOR AS SELECTED BY ARCHITECT	NIC NL	NOT IN CONTRACT NIGHT LIGHT								
		BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.							CCTV	CLOSED CIRCUIT TELEVISION	NO NTS	NORMALLY OPEN NOT TO SCALE								
		CUSTOM FINISH AS SELECTED BY ARCHITECT							CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	OC OCP	ON CENTER OVER CURRENT PROTECTION								
		CONTRACTOR FURNISHED/CONTRACTOR INSTALLED							CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED								
		CONTRACTOR FURNISHED/OWNER INSTALLED							CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	OF/OI	OWNER FURNISHED/OWNER INSTALLED								
F		CIRCUIT							CKT	CIRCUIT										
		CONSTRUCTION MANAGER							CM	CONSTRUCTION MANAGER	OFF	OVERHEAD (COILING)								
		CONDUIT							CND	CONDUIT	OH DR	OVERHEAD (COILING)								
		CONVENIENCE OUTLET							COR	CONVENIENCE OUTLET										
		CONTRACTING OFFICER'S REPRESENTATIVE							CP	CONTRACTING OFFICER'S REPRESENTATIVE	OL	OVERLOAD								
		CONTROL PANEL							CT	CURRENT TRANSFORMER	PB	PUSHBUTTON								
		CABLE TELEVISION							CTV	CABLE TELEVISION	PF	POWER FACTOR								
		COPPER							CU	COPPER	PH	PHASE								
		UNIT OF SOUND LEVEL							dBA	UNIT OF SOUND LEVEL	PNL	PANEL								
		DOUBLE POLE DOUBLE THROW							DPDT	DOUBLE POLE DOUBLE THROW	PTZ	POTENTIAL TRANSFORMER								
G		DISCONNECT SWITCH							DS	DISCONNECT SWITCH	R	REMOVE								
		EACH							EA	EACH	RCP	REFLECTED CEILING PLAN								
		EMERGENCY							EM	EMERGENCY	RMC	RIGID METAL CONDUIT								
		ELECTRICAL METALLIC TUBING							EMT	ELECTRICAL METALLIC TUBING	RNC	RIGID NONMETALLIC CONDUIT								
		ELECTRICAL NONMETALLIC TUBING							ENT	ELECTRICAL NONMETALLIC TUBING	RPM	REVOLUTIONS PER MINUTE								
		EMERGENCY POWER OFF EQUIPMENT							EPO	EMERGENCY POWER OFF EQUIPMENT	RR	REMOVE AND RELOCATE								
		EXISTING							EQUIP	EXISTING	SCA	SHORT CIRCUIT AMPS								
		FURNITURE MOUNTED							EX	FURNITURE MOUNTED	SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT								
		FIRE ALARM							F	FIRE ALARM	SF	SQUARE FOOT (FEET)								
		FIRE ALARM CONTROL PANEL							FCP	FIRE ALARM CONTROL PANEL	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT								
		FULL LOAD AMPS							FLA	FULL LOAD AMPS	SPDT	SINGLE POLE, DOUBLE THROW								
		FLEXIBLE METALCONDUIT							FMC	FLEXIBLE METALCONDUIT	SPEC	SPECIFICATION								
		FREIGHT ON BOARD							FOB	FREIGHT ON BOARD	SPST	SINGLE POLE, SINGLE THROW								
		FULL VOLTAGE REVERSING GROUND							FVNR	FULL VOLTAGE REVERSING GROUND	S/S	START/STOP								
		FULL VOLTAGE REVERSING GROUND							FVR	FULL VOLTAGE REVERSING GROUND	ST	SINGLE THROW								
H		GENERATOR							G	GENERATOR	SWBD	SWITCHBOARD								
		GROUND FAULT CIRCUIT INTERRUPTER							GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SWGR	SWITCHGEAR								
		GROUND FAULT PROTECTION							GFP	GROUND FAULT PROTECTION	TL	TWIST LOCK								
		HEAVY DUTY							HD	HEAVY DUTY	TP	TELEPHONE POLE								
		HIGH INTENSITY DISCHARGE							HID	HIGH INTENSITY DISCHARGE	TP	TELEPHONE TERMINAL BOARD								
		HAND-OFF-AUTOMATIC							HOA	HAND-OFF-AUTOMATIC	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER								
		HORSE POWER							HP	HORSE POWER	TYP	TYPICAL								
		HIGH POWER FACTOR							HPS	HIGH POWER FACTOR	UF	UNDERFLOOR								
		HIGH VOLTAGE							HV	HIGH VOLTAGE	UGND	UNDERGROUND								
		HERTZ							HZ	HERTZ	UPS	UNINTERRUPTIBLE POWER SUPPLY								
		ISOLATED GROUND							IG	ISOLATED GROUND	V	VOLT AMPERE								
		INTERMEDIATE METAL CONDUIT							IMC	INTERMEDIATE METAL CONDUIT	VFC/VFD	VARIABLE FREQUENCY MOTOR CONTROLLER								
		INSULATED/ISOLATED							IN/IS	INSULATED/ISOLATED	W/ W/O	WITH WITHOUT								
		INPUT/OUTPUT							I/O	INPUT/OUTPUT	WP	WEATHERPROOF								
		INFRARED							IR	INFRARED	XFMR	TRANSFORMER								
		JUNCTION BOX							J-BOX	JUNCTION BOX										
K		SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).							X	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).										
		SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).							X \$3	SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).										
		SWITCH, FOUR-WAY ("x" INDICATES FIXTURES CONTROLLED).							X \$4	SWITCH, FOUR-WAY ("x" INDICATES FIXTURES CONTROLLED).										
		SWITCH, OCCUPANCY SENSOR.							\$OS	SWITCH, OCCUPANCY SENSOR.										
L																				
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GENERAL SHEET NOTES

1. DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:  
1 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC.).  
2 - EQUIPMENT SHOP DRAWINGS.  
3 - FIELD INSTRUCTIONS.
2. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
3. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
8. LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.

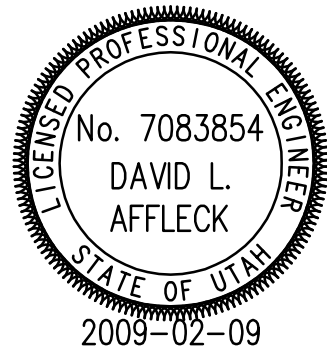
SHEET KEYNOTES

1. LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
3. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY .5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
4. LOCATE SMOKE DETECTOR ANYWHERE IN SHADED AREA.
5. LOCATE AT BOTTOM OF BEAMS IF EITHER D/H < .1 OR W/H < .4; OTHERWISE, LOCATE IN BEAM POCKET.

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SPECTRUM ENGINEERS



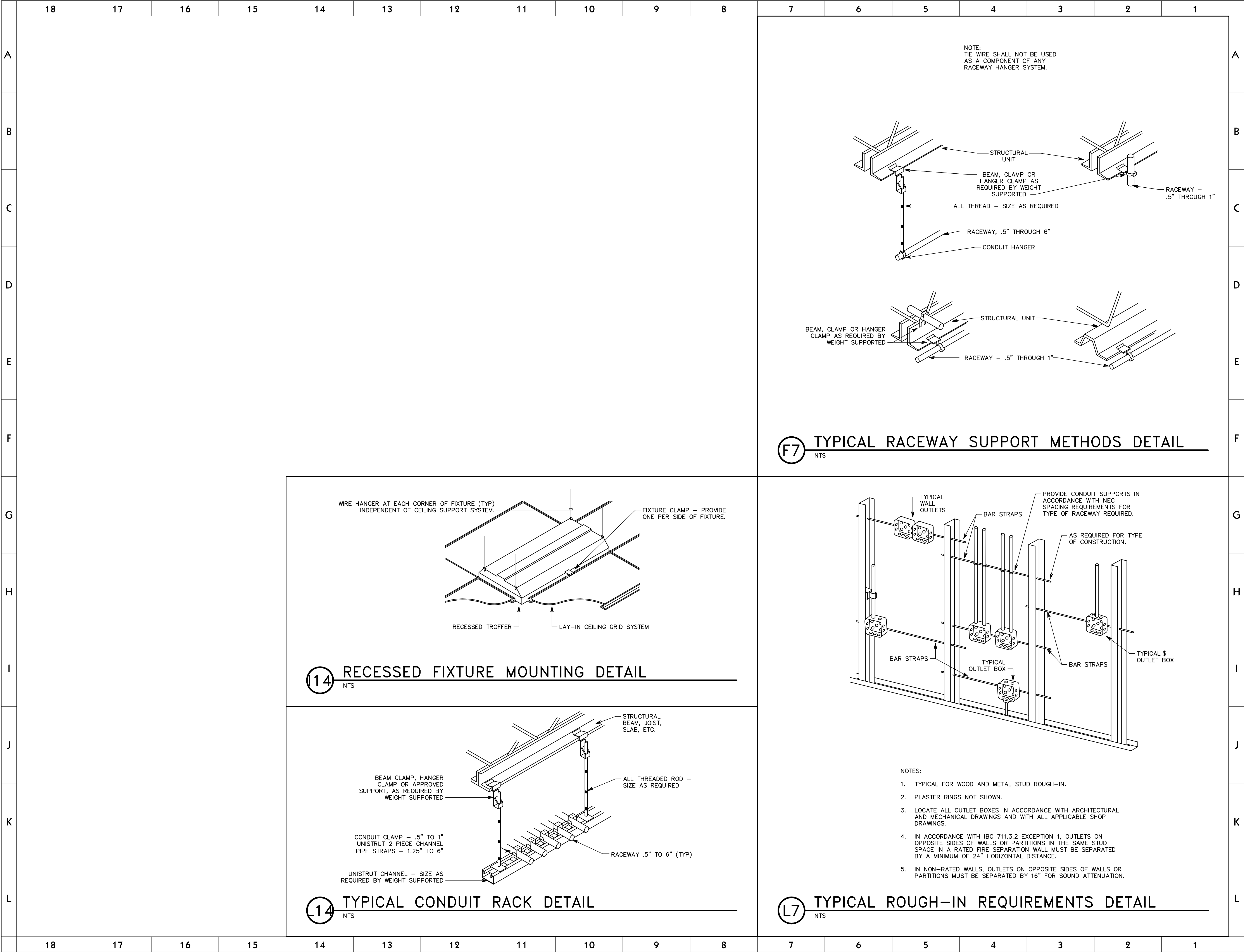
Utah National Guard  
RENOVATION OF READINESS CENTER  
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VERNAL, UTAH

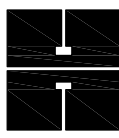
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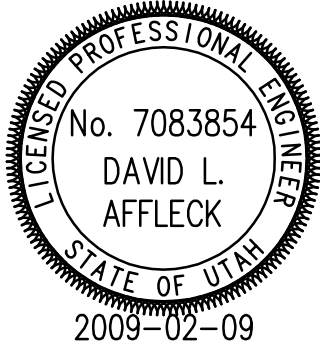



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**SPECTRUM  
ENGINEERS**



**Utah National Guard**  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

SHEET TITLE  
**Details**

REVISIONS	DATE	BY	DESCRIPTION
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PROJECT NO.  
**08032470 VR**

DATE  
**FEB. 9, 2009**

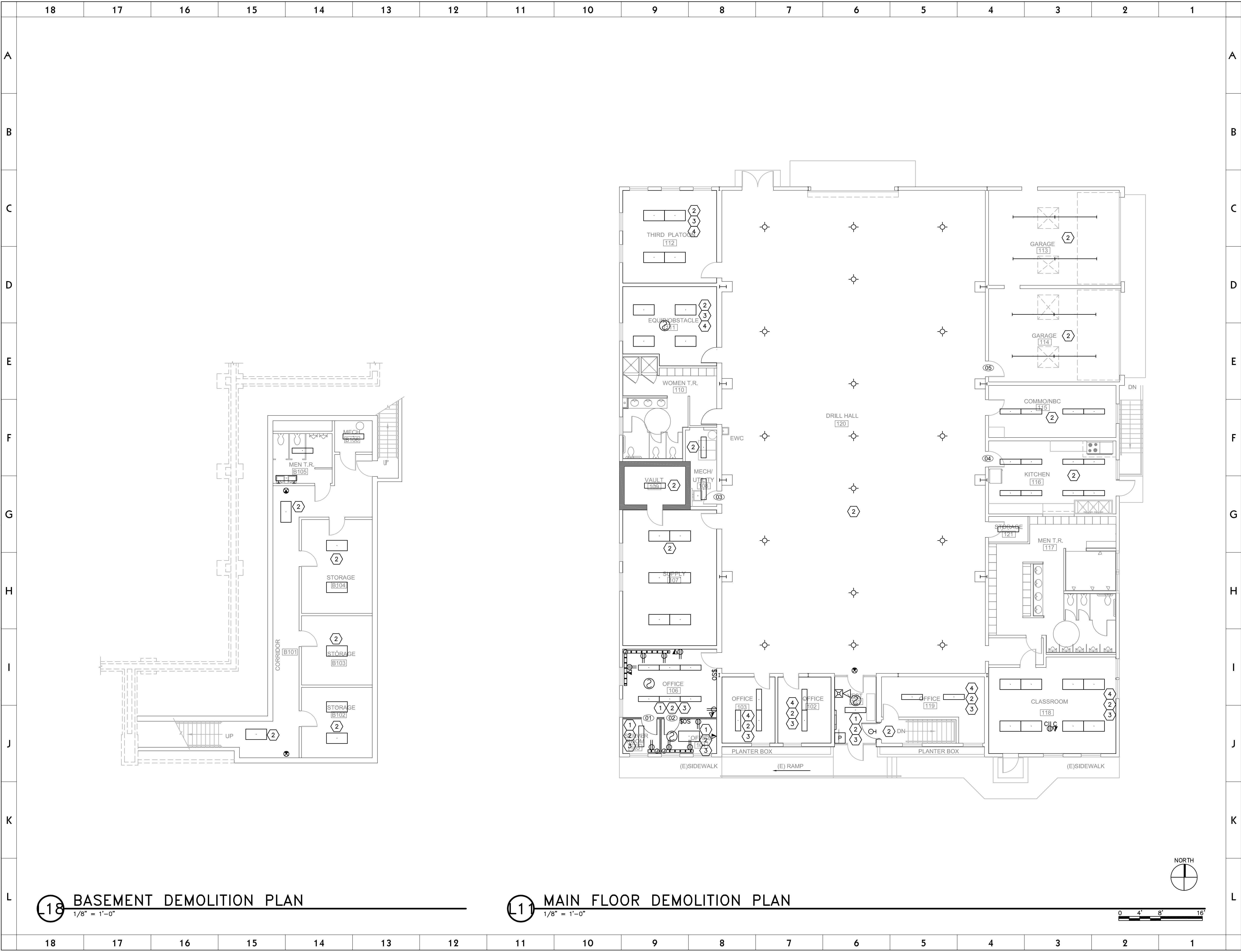
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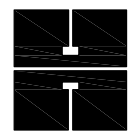
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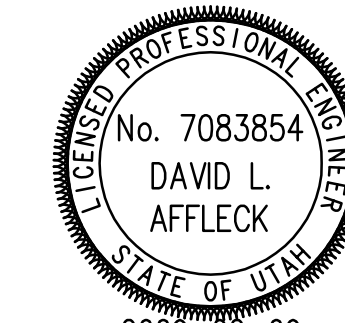
CONSULTANT INFORMATION


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GENERAL  
SHEET NOTES

1. RELOCATE ALL WALL MOUNTED ELECTRICAL/FIRE ALARM EQUIPMENT IN THIS ROOM TO NEW FURRED OUT WALL. PROVIDE EXTENSION RINGS ON BOXES AS REQUIRED. FIELD VERIFY.
2. REMOVE ALL LIGHT FIXTURES/EXIT SIGNS IN THIS ROOM.
3. RELOCATE ALL CEILING MOUNTED POWER/FIRE ALARM DEVICES TO NEW DROP CEILING. FIELD VERIFY REQUIREMENTS.
4. RELOCATE ALL EXISTING CONDUITS ON THE CEILING SO THEY ARE TIGHT TO THE CEILING TO ACCOMMODATE THE NEW DROP CEILING. EXTEND CONDUIT AND WIRING AS REQUIRED. COORDINATE WITH CEILING INSTALLER.



**Utah National Guard**

RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

SHEET TITLE

**Demolition Plans**

REVISIONS	DATE	BY	DESCRIPTION
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DRAWN BY	PSS	CHECKED BY	DLA
PROJECT NO.	08032470 VR	DRAWING NO.	ED101
DATE	FEB. 9, 2009		

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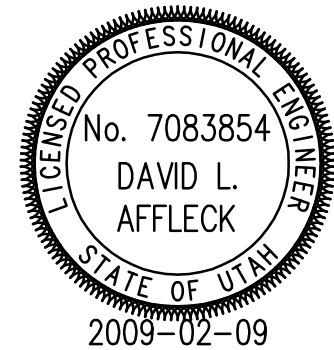


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**SHEET KEYNOTES**

1. CONCEAL CONDUIT AND RACEWAYS IN NEW FURRED OUT WALLS. COORDINATE WITH ALLOCATED CONTRACTORS. CONNECT TO EXISTING CIRCUITRY. PROVIDE NEW DEVICES AND COVER PLATES. EXISTING KNOWN DEVICES HAVE BEEN SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT TO BE RELOCATED.



Utah National Guard

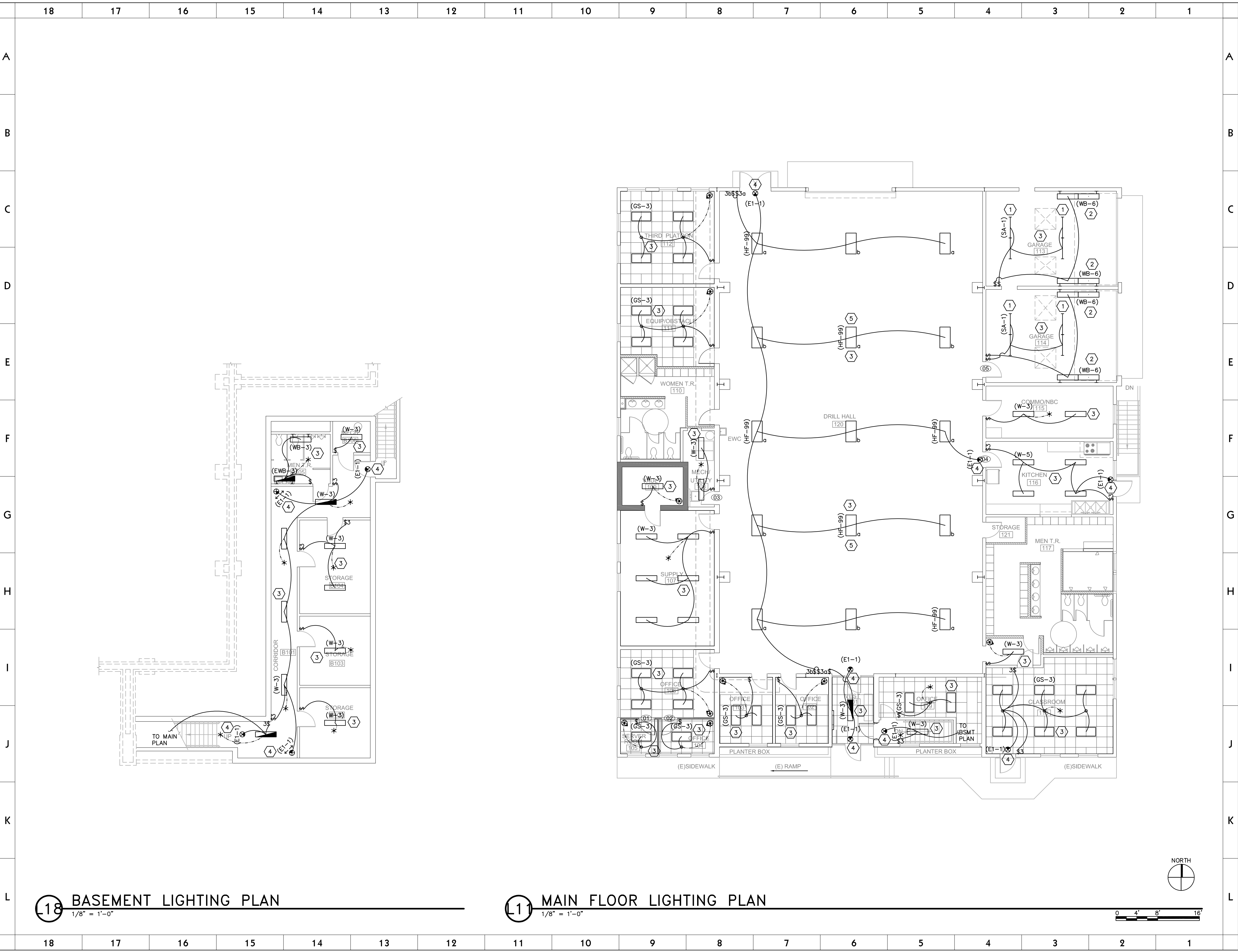
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

SHEET TITLE			
Power Plans			
REVISIONS	DATE	BY	DESCRIPTION
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DRAWN BY		CHECKED BY	
PSS		DLA	
PROJECT NO.		DRAWING NO.	
08032470 VR		EP101	
DATE			
FEB. 9, 2009			

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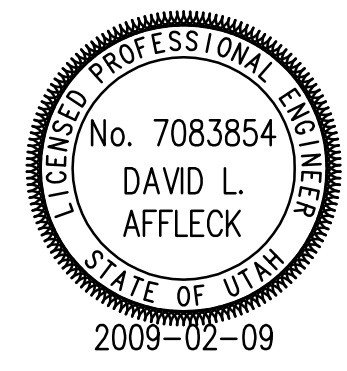


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- ### GENERAL SHEET NOTES
1. REPLACE ALL EXISTING LIGHT FIXTURES WITH NEW. SEE LAYOUT. CONNECT TO EXISTING CIRCUITRY.
  2. PROVIDE NEW SWITCHES AND COVER PLATES FOR ENTIRE BUILDING, SHOWN OR NOT.

- ### SHEET KEYNOTES
1. MOUNT FIXTURES ABOVE STRUCTURE. FIXTURE MUST CLEAR OVER HEAD DOOR WHEN OPEN.
  2. MOUNT FIXTURE BELOW OVERHEAD DOOR WHEN OPEN. POWER LIGHTS ON AVAILABLE CIRCUIT. FIELD VERIFY.
  3. CONNECT NEW LIGHTS IN THIS ROOM TO EXISTING CIRCUITS SERVING THIS AREA. MODIFY CONTROLS AS REQUIRED TO PROVIDE AUTOMATIC CONTROLS AS NOTED OR DESCRIBED. FIELD VERIFY REQUIREMENTS.
  4. CONNECT NEW EXIST SIGN TO UNSWITCHED LEG OF THE CIRCUIT.
  5. NOTE "a" AND "b" LIGHTING CIRCUITRY.



**Utah National Guard**  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
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SHEET TITLE			
Lighting Plans			
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PROJECT NO.		DRAWING NO.	
08032470 VR		EL101	
DATE			
FEB. 9, 2009			

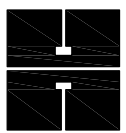
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	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
A																			
B																			
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L	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

LIGHTING FIXTURE SCHEDULE									
NOTE TO BIDDERS: COMPLY WITH SECTIONS 16511, 16521, AND 16570 OF THE SPECIFICATIONS. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277) BALLASTS REQUIRED UNLESS NOTED OTHERWISE. DIMENSION SEQUENCE = (LENGTH X WIDTH X DEPTH) IN INCHES.									
FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR SYMBOL MARK LENS/LOUVER/REFLECTOR/OTHER LAMP WATTS VOLTS MANUFACTURER CATALOG NUMBER NOTES									
E	E PREFIX INDICATES THAT FIXTURE IS PROVIDED WITH AN EMERGENCY BATTERY PACK TO PROVIDE POWER TO ANY 2, 3, 4 OR 8 FOOT FLOURESCENT LAMP COMPATIBLE WITH ALL STANDARD AND ELECTRONIC BALLASTS; COMPLETELY SELF-CONTAINED TO PROVIDE 90 MINUTES OF EMERGENCY POWER TO FIXTURE BALLAST; MINIMUM LIGHT OUTPUT FOR TYPICAL 4' LAMP SHALL BE 1100 LUMENS OR HIGHER;UNIVERSAL TRANSFORMER FOR 120 OR 277 VOLTS; LOW VOLTAGE PROTECTION, COMBINATION TEST SWITCH AND AC "ON" INDICATOR; 10 YEAR PRO-RATA WARRANTY; INSTALL TEST SWITCH IN A MANNER THAT REQUIRES NO DISASSEMBLY FOR TESTING.								
E	EMERGENCY BATTERY PACK.	120/277V3W				IOTA BODINE LITHONIA PRESCOLITE EELP CHLORIDE LIGHTOLIER SIDELITE	I-80 B50 PS-1400 EFPS-5 EB1400 (CONTRACTOR INSTALLED) CFP841 FBP50 S60F		
E1	EXIT SIGN: THERMOPLASTIC HOUSING; UNIVERSAL MOUNTING; UNIVERSAL ARROWS PER PLANS; EMERGENCY BATTERY PACK WITH 10 YEAR PRO-RATA WARRANTY; LED, DIFFUSE LENS PANEL; GREEN LETTERS ON WHITE BACKGROUND. MUST MEET NFPA ILLUMINATION STANDARDS.								
E1-1	SINGLE FACE:	LED	1W	120/277V	MCPHILBEN DUAL-LITE EELP LITHONIA SURE-LITES DAY-BRITE CHLORIDE LIGHTOLIER	CXXL-1-GW LXSGWE XE 1 GW EM LQM S W 1 G 120/277 ELN LPX70DGW CXL-1-GW-EM SLN1GW LTN1GW			
GS	TROFFERS: RECESSED FOR LAY-IN GRID; STATIC; HINGED AND LATCHED STEEL DOOR; .125 ACRYLIC PRISMATIC LENS, MINIMUM 1/8"; EARTHQUAKE CLIPS; MAX 5" DEEP; SPECIFICATION GRADE; PROGRAM START ELECTRONIC BALLASTS, T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.								
GS-3	2X4, 2 LAMP.	2-F32T8 RE841	65W	277/120V	LITHONIA METALUX  DAYBRITE LSI LIGHTOLIER COLUMBIA	2 SP8G 232 A12125 MVOLT TUBRHP (4-1/2" DEPTH) 2GP-232A125-UNV-EB81-PROGRAM START (3-3/4" DEPTH)  2DPG232-FS21-UNV-1/2EB-SPEC (4-3/8" DEPTH) LA125 232 SD SSO10PS UE (4" DEPTH) XT26VI232-UNV-SOP (3-5/8" DEPTH) ST824-232G-FSA12.125-EB8LHPRUNV (3-3/4" DEPTH)			
HF	SPECIAL FIXTURES AS INDICATED. MEET ALL REQUIREMENTS OF SPECIFICATIONS AND FIXTURE SCHEDULE. VISUAL AND FINISH APPROVAL REQUIRED.								
HF-99	HIGH BAY FLUORESCENT	6-F54T5 RE841	350w	277/120V	MANUF DAYBRITE LA LIGHTING LITHONIA HE WILLIAMS METALUX	CATALOG NUMBER FBF-6-54HO-UNV-1/42EB-U-WG-FBF6 EBY400-6-4M-SR-WG11-2EH5-MVOLT FSB-654L-KD-MVOLT-2/3-WGI GL-4-654T5H-WG11-UP5-WD 2HB-6-54T5-WG-UNV-LAMPS-EBT2			
SA	GENERAL PURPOSE INDUSTRIAL: WHITE ENAMEL, APERTURED REFLECTOR; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE; UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS; STEM MOUNTED WITH TONG HANGERS.								
SA-1	4', 2-LAMP.	2-F32T8 RE841	65W	277/120V	LITHONIA LIGHTOLIER METALUX HUBBELL COLUMBIA DAYBRITE	EJA232-MVOLT-TUBRHP-THUN KWA232-U-SOP IA-232-UNV-PROGRAM START IG142R-PP10-UPS CSR4-232U-EB8120/277 PROG-CSTH IA232-UNV-1/2-EB-SPEC			
W	LOW PROFILE WRAPAROUND: SURFACE MOUNTED SUITABLE FOR MOUNTING ON LOW DENSITY CEILINGS WRAPAROUND ACRYLIC PRISMATIC DIFFUSER; WHITE ENAMEL ENDPLATES; MINIMUM CU OF 70 @ 80/50/20 AND RCR=1; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.								
W-3	NARROW BODY WRAPAROUND; 2-LAMP, APPROX; 3' X 10" X 48".	2-F32T8 RE841	65W	277/120V	LITHONIA DAYBRITE METALUX LIGHTOLIER LSI COLUMBIA	LB232-MVOLT-TUBPHP CAN232-UNV-1/2-EB-SPEC WS-232A-UNV-PROGRAM START WA232-U-SOP PR 232 SSO10PRS UE WC4-232-EBPS120/277			
WB	WALL MOUNTED FLUORESCENT LOCATED ABOVE WALL ELEMENT (MIRROR/WHITEBOARD, ETC.); AS INDICATED ON DRAWINGS; WITH ACRYLIC INJECTION MOLDED; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.								
WB-3	2-LAMP, WALL MOUNT 48", STEEL ENCLOSURE, DOWNLIGHT ONLY; ACRYLIC INJECTION MOLDED PRISMATIC DIFFUSER.	2-F32T8 RE841	65W	277/120V	DAYBRITE LIGHTOLIER METALUX L.A.L. COLUMBIA LITHONIA LSI	CD232W-UNV-1/2-EB-SPEC CWB232-WB-U-SOP BI-232-UNV-PROGRAM START BSQ100-2-4R-INJ-WHT-T8EB-120/277-UPS WAL4-232-EBPS120/277 WP 232 DO MVOLT-TUBPHP WB 232 SSO10PRS UE			
WB-6	2-LAMP, WALL MOUNT, 48", WRAPAROUND; ACRYLIC INJECTION MOLDED PRISMATIC DIFFUSER.	2-F32T8 RE835	65W	277/120V	DAYBRITE LITHONIA WELLMADE METALUX LIGHTWAY DURAY LSI	WB232-CP-UNV-EB-SPEC WC 232 A12 MVOLT-TUBPHP 182-P-248T8-U-P BC-232-UNV-PROGRAM START VL232NL-120/277-PS WQ-6232-A-EBPS120/277 BR 232 SSO10PRS UE			

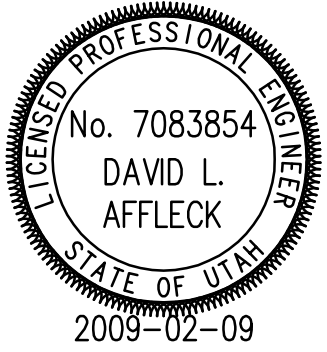



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**Utah National Guard**  
RENOVATION OF READINESS CENTER  
220 SOUTH 500 EAST  
VERNAL, UTAH

SHEET TITLE  
**Lighting Fixture Schedule**

REVISIONS	DATE	BY	DESCRIPTION
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PROJECT NO.  
**08032470 VR**

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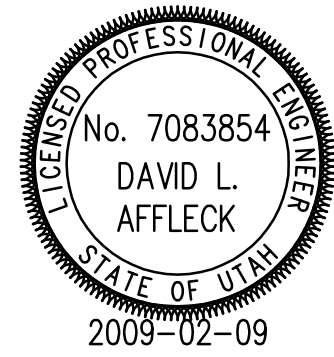


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## GENERAL SHEET NOTES

1. CONNECT NEW FIRE ALARM DEVICES TO EXISTING CIRCUITRY. MODIFY CONTROLS FOR REQUIRED FIRE ALARM PROTECTION.



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RENOVATION OF READINESS CENTER  
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SHEET TITLE			
Fire Alarm Plans			
REVISIONS	DATE	BY	DESCRIPTION
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